

December 13, 2004

Mr. William J. Gaffney
NAPA SANITATION DISTRICT
935 Hartle Court
Napa, CA 94559

Re: October 2004 Compliance Monitoring Results for the Jefferson Car Wash Site Groundwater Extraction and Treatment System, 3080 Jefferson Street, Napa, California, Industrial User Permit No. 495950.

Dear Mr. Gaffney:

This letter presents the results of October 2004 Compliance Monitoring for the Groundwater Extraction and Treatment System (System) at the Jefferson Car Wash site, 3080 Jefferson Street, Napa, California. Compliance monitoring and reporting have been conducted in accordance with the guidelines stipulated in the Industrial User Permit No. 495950. Presented herein are the results of the 7<sup>th</sup> compliance monitoring event after System start-up, which occurred on March 29, 2004.

The compliance monitoring activities for this reporting period were performed by Decon Environmental Services, the operations and maintenance (O&M) contractor for the System, under the direction of Malcolm Pirnie on November 10, 2004. The monitoring activities included:

- 1. Sampling the System effluent.
- 2. Recording the total volume of raw water discharged from individual extraction wells (EW-2 and EW-3).
- 3. Recording the total volume of treated water discharged to sanitary sewer.

Per the Permit requirements, effluent samples were analyzed for total petroleum hydrocarbons as diesel (TPH-D) by United States Environmental Protection Agency (USEPA) Method 8015M, TPH as gasoline (TPH-G), benzene, toluene, ethylene, total xylenes (BTEX), and methyl-tertiary-butyl ether (MTBE) by USEPA Method 8260B, and total lead by USEPA Method 200.7.

Table 1 presents the analytical results for the System effluent and the System flow parameters. The analytical laboratory report is attached.

### Mr. William J. Gaffney NAPA SANITATION DISTRICT

The analytical laboratory reported the concentrations of constituents of concern to be below their respective analytical method reporting limits in the System effluent. The average daily discharge rate for this reporting period was estimated to be 4.9 gallons per minute (gpm), which was below the 8 gpm limit. A total of 162,700 gallons of treated water was discharged to the sanitary sewer during this reporting period.

Please contact Jason at (510) 732-6444 Ext. 17 or Todd Miller with Malcolm Pirnie at (510) 735-3014 to discuss any comments or questions.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that a qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,

**DECON ENVIRONMENTAL SERVICES** 

Melbanson

Jason Gulbransen Project Manager

Attachments: Table 1, Analytical Laboratory Report

c: George Altamura, Altamura Enterprises
Joel Coffman, Napa County
Todd Miller, Malcolm Pirnie
File (4459-008)
P:\4459\008\GWTS Compliance Monitoring\October 2004 Compliance Monitoring Letter Report.doc

## Table 1: Compliance Monitoring Results, October 2004 Interim Groundwater Extraction and Treatment System Jefferson Car Wash Site

Industrial User Permit No: 495950

| Parameter  | Units             | USEPA<br>Method | Date<br>Collected | System<br>Effluent | Permitted<br>Reporting Limit <sup>1</sup> |
|--|-------------------|-----------------|-------------------|--------------------|---|
| Volatile Organic Compounds                             |                   |                 |                   |                    |   |
| Methyl Tertiary-Butyl Ether                            | μg/L <sup>6</sup> | 8260B           | 12/2/2004         | < 1                | 1.0% LEL <sup>4</sup>                     |
| Benzene  | μg/L              | 8260B           | 12/2/2004         | < 0.5              | 1.0% LEL                                  |
| Toluene  | μg/L              | 8260B           | 12/2/2004         | < 0.5              | 1.0% LEL                                  |
| Ethylbenzene   | μg/L              | 8260B           | 12/2/2004         | < 0.5              | 1.0% LEL                                  |
| Xylenes, Total   | μg/L              | 8260B           | 12/2/2004         | < 1                | 1.0% LEL                                  |
| TPH as Gasoline  | μg/L              | 8260B           | 12/2/2004         | < 25               | 5   |
| TPH as Diesel  | μg/L              | 8015M           | 12/2/2004         | < 50               |   |
| Total Lead   | mg/L <sup>7</sup> | 200.7           | 12/2/2004         | < 0.05             | 0.14                                      |
| Operational  |                   |                 |                   |                    |   |
| Total Volume Discharged to Sanitary Sewer <sup>2</sup> | gallons           |                 | 12/2/2004         | 162,700            |   |
| Daily Average System Flow Rate <sup>3</sup>            | gpm <sup>8</sup>  |                 | 12/2/2004         | 4.91               | 8   |

#### **Notes:**

i.e., { Sum of Flow Totalizer Volume at EW-2 and EW-3 for this period } -

{ Sum of Flow Totalizer Volume at EW-2 and EW-3 for the previous period }

<sup>&</sup>lt;sup>1</sup> As stated in Industrial User Permit, No: 495950, issued for the System on 03/02/2004.

<sup>&</sup>lt;sup>2</sup> The sum of volumes extracted from individual wells, EW-2 and EW-3, for this period as recorded by the flow totalizer at the respective well-head.

<sup>&</sup>lt;sup>3</sup> Calculated as the *Total Volume Discharged to Sanitary Sewer* divided by the number of days the system was in operation during the reporting period (23 days for this period).

<sup>&</sup>lt;sup>4</sup> Lower explosive limit.

<sup>&</sup>lt;sup>5</sup> No reporting limit stated or not applicable.

<sup>&</sup>lt;sup>6</sup> Micrograms per liter.

<sup>&</sup>lt;sup>7</sup> Milligrams per liter.

<sup>&</sup>lt;sup>8</sup> Gallons per minute.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Jason Gulbransen

Certificate ID: 41224 - 11/17/2004 7:00:53 PM

Decon Environmental Services, Inc. 23490 Connecticut Street Hayward, CA 94545

**Order:** 41224

**Project Name:** 

Jefferson Carwash

**Project Number:** 

4470

**Date Collected:** 11/10/2004

**Date Received:** 11/10/2004

**P.O. Number:** 4470

### Certificate of Analysis - Final Report

On November 10, 2004, sample was received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix

**Test** 

Method

Comments

Liquid

8260Petroleum

EPA 8260B EPA 200.7

Lead TPH as Gasoline - GC/MS

GC-MS

TPH-Extractable

EPA 8015 MOD. (Extractable)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

Laurie Glantz-Murphy

Laboratory Director

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Decon Environmental Services, Inc.

23490 Connecticut Street Hayward, CA 94545 Attn: Jason Gulbransen Project Number: 4470

Project Name: Jefferson Carwash

Date Received: 11/10/2004 P.O. Number: 4470

Sampled By: Client

#### Certificate of Analysis - Data Report

| Lab # · 41224-001 | Sample ID: Discharge Point | Matrix: Liquid | Sample Date: 11/10/200 7:27 AM |
|-------------------|----------------------------|----------------|--------------------------------|
|                   |                            |                |                                |

| Method: EPA 200.7 / EPA 3010B / | Acid Digestic | on for ICI | or 60 | 10B                    |       |            |            |               |               |
|---------------------------------|---------------|------------|-------|------------------------|-------|------------|------------|---------------|---------------|
| Parameter                       | Result        | Flag       | DF    | <b>Detection Limit</b> | Units | Prep Date  | Prep Batch | Analysis Date | QC Batch      |
| Lead                            | ND            |            | 1     | 0.05                   | mg/L  | 11/10/2004 | WM041110   | 11/17/2004    | WICP1041117-3 |

Analyzed by: JIsiderio
Reviewed by: MFELIX

#### Method: EPA 8015 MOD. (Extractable) / EPA 3510C / Sep. funnel liquid/liquid extraction

97.1

| Parameter     | Result             | Flag | DF      | <b>Detection Limit</b> | Units | Prep Date  | Prep Batch | Analysis Date      | QC Batch |
|---------------|--------------------|------|---------|------------------------|-------|------------|------------|--------------------|----------|
| TPH as Diesel | ND                 |      | 1       | 50                     | μg/L  | 11/10/2004 | DW4823A    | 11/11/2004         | DW4823A  |
| Surrogate     | Surrogate Recovery | Co   | ntrol L | imits (%)              |       |            |            | Analyzed by: JZair | ninger   |
| o-Terphenyl   | 84.0               |      | 22 -    | 133                    |       |            |            | Reviewed by: MTU   | J        |

#### Method: EPA 8260B / EPA 5030B / Purge & Trap

| Parameter            | Result   | Flag | DF | <b>Detection Limit</b> | Units | Prep Date | Prep Batch | Analysis Date | QC Batch   |
|----------------------|----------|------|----|------------------------|-------|-----------|------------|---------------|------------|
| Benzene              | ND       |      | 1  | 0.5                    | μg/L  | N/A       | N/A        | 11/12/2004    | WMS1041112 |
| Toluene              | ND       |      | 1  | 0.5                    | μg/L  | N/A       | N/A        | 11/12/2004    | WMS1041112 |
| Ethyl Benzene        | ND       |      | 1  | 0.5                    | μg/L  | N/A       | N/A        | 11/12/2004    | WMS1041112 |
|                      | ND       |      | 1  | 1                      | μg/L  | N/A       | N/A        | 11/12/2004    | WMS1041112 |
| Xylenes, Total       | ND<br>ND |      | 1  | 1                      | μg/L  | N/A       | N/A        | 11/12/2004    | WMS1041112 |
| Methyl-t-butyl Ether | ND       |      | 1  |                        | M8/12 | 1 1/2 1   |            |               |            |

| Memyi-t-butyi Ether  | 140                | •                  | 10 |                    |
|----------------------|--------------------|--------------------|----|--------------------|
| Surrogate            | Surrogate Recovery | Control Limits (%) |    | Analyzed by: Xbian |
| 4-Bromofluorobenzene | 87.0               | 75 - 125           |    | Reviewed by: MTU   |
| Dibromofluoromethane | 102                | 75 - 125           |    |                    |

75 - 125

#### Method: GC-MS

Toluene-d8

| Parameter            | Result             | Flag | DF      | <b>Detection Limit</b> | Units | Prep Date | Prep Batch | Analysis Date     | QC Batch   |
|----------------------|--------------------|------|---------|------------------------|-------|-----------|------------|-------------------|------------|
| TPH as Gasoline      | ND                 |      | 1       | 25                     | μg/L  | N/A       | N/A        | 11/12/2004        | WMS1041112 |
| Surrogate            | Surrogate Recovery | Co   | ntrol l | Limits (%)             |       |           |            | Analyzed by: Xbia | an         |
| 4-Bromofluorobenzene | 95.5               |      | 75 -    | 125                    |       |           |            | Reviewed by: MT   | ับ         |
| Dibromofluoromethane | 101                |      | 75 -    | 125                    |       |           |            |                   |            |
| Toluene-d8           | 98.4               |      | 75 -    | 125                    |       |           |            |                   |            |

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#### **Quality Control - Method Blank**

Liquid

Prep Batch ID: DW4823A

Prep Date: 11/10/2004

Validated by: MTU - 11/11/04

QC Batch ID: DW4823A

**Analysis Date: 11/10/2004** 

**Method Blank** 

Method: EPA 8015 MOD. (Extractable)

Parameter

Result ND

DF

POLR

Units

TPH as Diesel

% Recovery Control Limits

1

11/10/2004

50

 $\mu g/L$ 

Surrogate for Blank o-Terphenyl

22 - 133 74.0

Quality Control - Laboratory Control Spike / Duplicate Results

Liquid

Prep Batch ID: DW4823A

Reviewed by: MTU - 11/11/04

LCS

QC Batch ID: DW4823A

**Analysis Date: 11/10/2004** 

Prep Date: 11/10/2004

Method: EPA 8015 MOD. (Extractable) Blank (MDL) Spike Amt SpikeResult QC Type Analysis Date % Recovery RPD RPD Limits Recovery Limits

Conc. Units: µg/L

25

Parameter TPH as Diesel

LCS

1000 <5

Surrogate o-Terphenyl

**Control Limits** % Recovery 22 - 133 73

Method: EPA 8015 MOD. (Extractable)

Conc. Units: µg/L

82.0

Parameter

LCSD

Blank (MDL) Spike Amt SpikeResult QC Type Analysis Date % Recovery 11/10/2004 **LCSD** 

88.0

RPD Limits Recovery Limits **RPD** 

7.1

35 - 109

35 - 109

TPH as Diesel

**Control Limits** Surrogate % Recovery 77 22 - 133 o-Terphenyl

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### **Quality Control - Method Blank**

Liquid

Validated by: MTU - 11/15/04

QC Batch ID: WMS1041112

**Analysis Date: 11/12/2004** 

| Method Blank   | Meth                              | od: GC-MS                                 |              |         |            |               |
|--|-----------------------------------|---|--------------|---------|------------|---------------|
| Parameter<br>TPH as Gasoline   |                                   |   | Result<br>ND | DF<br>1 | PQLR<br>25 | Units<br>µg/L |
| Surrogate for Blank 4-Bromofluorobenzene Dibromofluoromethane Toluene-d8 | % Recovery<br>96.4<br>100<br>99.0 | Control Limits 75 - 125 75 - 125 75 - 125 |              |         |            |               |

### **Quality Control - Laboratory Control Spike / Duplicate Results** Liquid

Reviewed by: MTU - 11/15/04

QC Batch ID: WMS1041112

Analysis Date: 11/12/2004

|                                   |              |                               |             |             |         |                             |            |          | Analysis D                | ate: 11/12/200                          |
|-----------------------------------|--------------|-------------------------------|-------------|-------------|---------|-----------------------------|------------|----------|---------------------------|---|
| LCS<br>Parameter<br>TPH as Gasol: | Method:      | GC-MS<br>Blank (MDL)<br><6.45 | Spike Amt   | SpikeResult | QC Type | Analysis Date<br>11/12/2004 | % Recovery | C<br>RPD | onc. Units:<br>RPD Limits | μg/L<br>Recovery Limits<br>65 - 135     |
| Surr                              | rogate       | % Recovery                    | Control Lin | nits        |         |                             |            |          |                           |   |
| 4-Bromofle                        | uorobenzene  | 100                           | 75 - 125    | i           |         |                             |            |          |                           |   |
| Dibromofle                        | uoromethane  | 96                            | 75 - 125    | ;           |         |                             |            |          |                           |   |
| Tolu                              | ene-d8       | 98.5                          | 75 - 125    | ·           |         |                             |            |          |                           |   |
| LCSD                              | Method:      | GC-MS                         | Spike Amt   | SnikaDasult | OC Type | Analysis Date               | % Recovery | C<br>RPD | onc. Units:               | μg/L<br>Recovery Limit                  |
| <b>Parameter</b><br>TPH as Gasol  | line         | Blank (MDL)<br><6.45          | 125         | 153         | LCSD    | 11/12/2004                  | 122        | 2.2      | 25                        | 65 - 135                                |
| Sur                               | rogate       | % Recovery                    | Control Lir | nits        |         |                             |            |          | ,                         | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 4-Bromofl                         | luorobenzene | 100                           | 75 - 12:    | 5           |         |                             |            |          |                           |   |
| Dibromofl                         | luoromethane | 94.4                          | 75 - 12:    | 5           |         |                             |            |          |                           |   |
| Tolu                              | iene-d8      | 101                           | 75 - 12:    | 5           |         |                             |            |          |                           |   |

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### Quality Control - Method Blank / Laboratory Control Spike / Duplicate Results

Reviewed by: MFELIX - 11/11/04

Prep Batch ID: WM041110 Prep Date: 11/10/2004

QC Batch ID: WICP1041110-2 Analysis Date: 11/10/2004

Liquid Conc. Units: mg/L

| Method EPA 200.7   |            |              |             |         |            |      | Liqu | id Conc. U | nits: mg/L      |
|--------------------|------------|--------------|-------------|---------|------------|------|------|------------|-----------------|
| Parameter          | Blank (MDI | L) Spike Amt | SpikeResult | QC Type |            |      | RPD  | RPD Limits | Recovery Limits |
| Antimony           | < 0.03     | 0.5          | 0.51        | LCS     | 11/10/2004 | 103  |      |            | 86 - 135        |
| Arsenic            | < 0.01     | 0.5          | 0.63        | LCS     | 11/10/2004 | 125  |      |            | 92 - 151        |
| Chromium           | < 0.002    | 0.5          | 0.49        | LCS     | 11/10/2004 | 98.4 |      |            | 89 - 128        |
| Lead               | < 0.02     | 0.5          | 0.53        | LCS     | 11/10/2004 | 107  |      |            | 93 - 124        |
| Nickel             | < 0.007    | 0.5          | 0.54        | LCS     | 11/10/2004 | 107  |      |            | 96 - 123        |
| Selenium           | <0.03      | 0.5          | 0.49        | LCS     | 11/10/2004 | 98.9 |      |            | 82 - 128        |
| Antimony           | <0.03      | 0.5          | 0.51        | LCSD    | 11/10/2004 | 102  | 0.84 | 25         | 86 - 135        |
| Arsenic            | < 0.01     | 0.5          | 0.61        | LCSD    | 11/10/2004 | 123  | 2.2  | 25         | 92 - 151        |
|                    | < 0.002    | 0.5          | 0.48        | LCSD    | 11/10/2004 | 95.9 | 2.6  | 25         | 89 - 128        |
| Chromium           | <0.002     | 0.5          | 0.53        | LCSD    | 11/10/2004 | 106  | 0.38 | 25         | 93 - 124        |
| Lead               | < 0.02     | 0.5          | 0.53        | LCSD    | 11/10/2004 | 107  | 0.56 | 25         | 96 - 123        |
| Nickel<br>Selenium | <0.03      | 0.5          | 0.50        | LCSD    | 11/10/2004 | 99.5 | 0.65 | 25         | 82 - 128        |

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#### Quality Control - Method Blank Liquid

Validated by: MTU - 11/15/04

QC Batch ID: WMS1041112 Analysis Date: 11/12/2004

| Method Blank                | Method: EPA 8260B |     |      |                |
|-----------------------------|-------------------|-----|------|----------------|
| Parameter                   | Result            | DF  | PQLR | Units          |
| 1,1,1,2-Tetrachloroethane   | ND                | 1   | 0.5  | μg/L           |
| 1,1,1-Trichloroethane       | ND                | 1   | 0.5  | μg/L           |
| 1,1,2,2-Tetrachloroethane   | ND                | 1   | 0.5  | μg/L           |
|                             | ND                | 1   | 0.5  | μg/L           |
| 1,1,2-Trichloroethane       | ND                | 1   | 0.5  | μg/L           |
| 1,1-Dichloroethane          | ND                | 1   | 0.5  | μg/L           |
| 1,1-Dichloroethene          | ND                | 1   | 0.5  | μg/L           |
| 1,1-Dichloropropene         | ND                | 1   | 5    | μg/L           |
| 1,2,3-Trichlorobenzene      | ND                | 1   | 0.5  | μg/L           |
| 1,2,3-Trichloropropane      | ND                | 1   | 5    | μg/L           |
| 1,2,4-Trichlorobenzene      | ND                | 1   | 5    | μg/L           |
| 1,2,4-Trimethylbenzene      |                   | 1   | 5    | μg/L           |
| 1,2-Dibromo-3-Chloropropane | ND                | 1   | 0.5  | μg/L           |
| 1,2-Dibromoethane (EDB)     | ND<br>ND          | 1   | 0.5  | μg/L           |
| 1,2-Dichlorobenzene         | ND                |     | 0.5  | μg/L<br>μg/L   |
| 1,2-Dichloroethane          | ND                | 1   | 0.5  | μg/L<br>μg/L   |
| 1,2-Dichloropropane         | ND                | 1   |      | μg/L<br>μg/L   |
| 1,3,5-Trimethylbenzene      | ND                | 1   | 5    |                |
| 1,3-Dichlorobenzene         | ND                | 1   | 0.5  | μg/L<br>σ/I    |
| 1,3-Dichloropropane         | ND                | 1   | 0.5  | μg/L           |
| 1,4-Dichlorobenzene         | ND                | 1   | 0.5  | μg/L           |
| 1,4-Dioxane                 | ND                | 1   | 50   | μg/L           |
| 2,2-Dichloropropane         | ND                | 1   | 0.5  | μg/L           |
| 2-Butanone (MEK)            | ND                | 1   | 20   | μg/L           |
| 2-Chloroethyl-vinyl Ether   | ND                | 1   | -5   | μg/L           |
| 2-Chlorotoluene             | ND                | 1   | 5    | μg/L           |
| 2-Hexanone                  | ND                | 1   | 20   | μg/L           |
| 4-Chlorotoluene             | ND                | 1   | 5    | μg/L           |
| 4-Methyl-2-Pentanone(MIBK)  | ND                | 1 - | 20   | μg/L           |
| Acetone                     | ND                | 1   | 20   | μg/L           |
| Acetonitrile                | ND                | 1   | 5    | μg/L           |
| Acrolein                    | ND                | 1   | 5    | μg/L           |
| Acrylonitrile               | ND                | 1   | 5    | μg/L           |
| Benzene                     | ND                | 1   | 0.5  | μg/L           |
| Benzyl Chloride             | ND                | 1   | 5    | μg/L           |
| •                           | ND                | 1   | 0.5  | μg/L           |
| Bromobenzene                | ND                | 1   | 0.5  | μg/L           |
| Bromochloromethane          | ND                | 1   | 0.5  | μg/L           |
| Bromodichloromethane        | ND                | 1   | 0.5  | μg/L           |
| Bromoform                   | ND                | 1   | 0.5  | μg/L           |
| Bromomethane                | ND                | 1   | 0.5  | μg/L           |
| Carbon Disulfide            | ND<br>ND          | 1   | 0.5  | μg/L           |
| Carbon Tetrachloride        | ND<br>ND          | 1   | 0.5  | μg/L           |
| Chlorobenzene               |                   | 1   | 0.5  | μg/L           |
| Chloroethane                | ND                | 1   | 0.5  | μg/L<br>μg/L   |
| Chloroform                  | ND                |     | 0.5  | μg/L<br>μg/L   |
| Chloromethane               | ND                | 1   | 0.5  | μ <u>6</u> , υ |

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### Quality Control - Method Blank Liquid

Validated by: MTU - 11/15/04

QC Batch ID: WMS1041112

**Analysis Date: 11/12/2004** 

| Method Blank                | Method: EPA 8260                         | В      |     |      |           |
|-----------------------------|--|--------|-----|------|-----------|
| Parameter                   |  | Result | DF  | PQLR | Units     |
| cis-1,2-Dichloroethene      |  | ND     | 1   | 0.5  | μg/L      |
| cis-1,3-Dichloropropene     |  | ND     | 1   | 0.5  | μg/L      |
| Cyclohexanone               |  | ND     | 1   | 20   | μg/L      |
| Dibromochloromethane        |  | ND     | 1   | 0.5  | μg/L      |
| Dibromomethane              |  | ND     | 1   | 0.5  | μg/L      |
| Dichlorodifluoromethane     |  | ND     | . 1 | 0.5  | μg/L      |
| Diisopropyl Ether           |  | ND     | 1   | 5    | μg/L      |
| Ethyl Benzene               |  | ND     | 1   | 0.5  | μg/L      |
| Freon 113                   |  | ND     | 1   | 1    | μg/L      |
| Hexachlorobutadiene         |  | ND     | 1   | 5    | μg/L      |
| Iodomethane                 |  | ND     | 1   | 1    | μg/L      |
| Isopropanol                 |  | ND     | . 1 | 20   | μg/L      |
| Isopropylbenzene            |  | ND     | 1   | 1    | μg/L      |
| Methyl-t-butyl Ether        |  | ND     | 1   | 1    | μg/L      |
| Methylene Chloride          |  | 8.3    | 1   | 5    | μg/L      |
| n-Butylbenzene              |  | ND     | 1   | 5    | μg/L      |
| n-Propylbenzene             |  | ND     | 1   | 5    | μg/L      |
| Naphthalene                 |  | ND     | 1   | 5    | μg/L      |
| p-Isopropyltoluene          |  | ND     | 1   | 5    | μg/L      |
| Pentachloroethane           |  | ND     | 1   | 0.5  | μg/L      |
| sec-Butylbenzene            |  | ND     | 1   | 5    | μg/L      |
| Styrene                     |  | ND     | 1   | 0.5  | μg/L      |
| tert-Amyl Methyl Ether      |  | ND     | 1   | 5    | μg/L      |
| tert-Butanol (TBA)          |  | ND     | 1   | 10   | μg/L      |
| tert-Butyl Ethyl Ether      |  | ND     | 1   | 5    | μg/L      |
| tert-Butylbenzene           |  | ND ·   | 1   | 5    | μg/L      |
| Tetrachloroethene           |  | ND     | 1   | 0.5  | μg/L      |
| Tetrahydrofuran             |  | ND     | 1   | 20   | μg/L      |
| Toluene                     |  | ND     | 1   | 0.5  | μg/L      |
| trans-1,2-Dichloroethene    |  | ND     | 1   | 0.5  | μg/L      |
| trans-1,3-Dichloropropene   |  | ND     | 1   | 0.5  | μg/L      |
| trans-1,4-Dichloro-2-butene |  | ND     | 1   | 1    | $\mu g/L$ |
| Trichloroethene             |  | ND     | 1   | 0.5  | μg/L      |
| Trichlorofluoromethane      |  | ND     | I   | 0.5  | $\mu g/L$ |
| Vinyl Acetate               |  | ND     | 1   | 5    | μg/L      |
| Vinyl Chloride              |  | ND     | 1   | 0.5  | $\mu g/L$ |
| Xylene, m+p                 |  | ND     | 1   | 1    | μg/L      |
| Xylene, o                   |  | ND     | 1   | 0.5  | μg/L      |
| Xylenes, Total              |  | ND     | 1   | 1    | μg/L      |
|                             | Recovery Control Limit                   | 9      |     |      |           |
|                             | •  | 3      |     |      |           |
| 4-Bromofluorobenzene        | 87.8     75 - 125       101     75 - 125 |        |     |      |           |
| Dibromofluoromethane        | 101 /3 - 123                             |        |     |      |           |

75 - 125

97.7

Toluene-d8

3334 Victor Court , Santa Clara, CA 95054

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### Quality Control - Laboratory Control Spike / Duplicate Results Liquid

Reviewed by: MTU - 11/15/04

QC Batch ID: WMS1041112

**Analysis Date: 11/12/2004** 

| LCS Method:          | EPA 8260B             |              |             |                          |  |            | C                 | onc. Units: |                 |  |  |
|----------------------|-----------------------|--------------|-------------|--------------------------|--|------------|-------------------|-------------|-----------------|--|--|
| Parameter            | Blank (MDL)           | Spike Amt    | SpikeResult | QC Type                  | Analysis Date  | % Recovery | RPD               | RPD Limits  | Recovery Limits |  |  |
| 1,1-Dichloroethene   | <0.2                  | 20.0         | 22.0        | LCS<br>LCS<br>LCS<br>LCS | 11/12/2004<br>11/12/2004<br>11/12/2004<br>11/12/2004 | 110        |                   |             | 80 - 120        |  |  |
| Benzene              | < 0.2                 | 20.0         | 22.4        |                          |  | 112        |                   |             | 80 - 120        |  |  |
| Chlorobenzene        | < 0.2                 | 20.0         | 21.0        |                          |  | 105        |                   |             | 80 - 120        |  |  |
| Methyl-t-butyl Ether | < 0.3                 | 20.0         | 20.5        |                          |  | 103        |                   |             | 80 - 120        |  |  |
| Toluene              | < 0.2                 | 20.0         | 20.6        | LCS                      | 11/12/2004   | 2004 103   |                   |             | 80 - 120        |  |  |
| Trichloroethene      | < 0.2                 | 20.0         | 20.1        | LCS                      | 11/12/2004   | 101        |                   |             | 80 - 120        |  |  |
| Surrogate            | % Recovery            | Control Limi | its         |                          |  |            |                   |             | 100             |  |  |
| 4-Bromofluorobenzene | 93.2                  | 75 - 125     |             |                          |  |            |                   |             |                 |  |  |
| Dibromofluoromethane | 106                   | 75 - 125     |             |                          |  |            |                   |             |                 |  |  |
| Toluene-d8           | 92.3                  | 75 - 125     |             |                          |  |            |                   |             |                 |  |  |
| LCSD Method:         | CSD Method: EPA 8260B |              |             |                          |  |            | Conc. Units: μg/L |             |                 |  |  |
| Parameter Wietnod:   | Blank (MDL)           | Spike Amt    | SpikeResult | OC Type                  | Analysis Date  | % Recovery | RPD               | RPD Limits  | Recovery Limits |  |  |
| 1,1-Dichloroethene   | <0.2                  | 20.0         | 19.8        | LCSD                     | 11/12/2004   | 99.0       | 10.5              | 25          | 80 - 120        |  |  |
| Renzene              | <0.2                  | 20.0         | 20.8        | LCSD                     | 11/12/2004   | 104        | 7.4               | 25          | 80 - 120        |  |  |
| Chlorobenzene        | <0.2                  | 20.0         | 19.9        | LCSD                     | 11/12/2004   | 99.5       | 5.4               | 25          | 80 - 120        |  |  |
| Methyl-t-butyl Ether | <0.3                  | 20.0         | 18.5 LCSD   |                          | 11/12/2004   | 92.5       | 10.3              | 25          | 80 - 120        |  |  |
| Toluene              | <0.2                  | 20.0         | 19.8        | LCSD                     | 11/12/2004   | 99.0       | 4.0 25            |             | 80 - 120        |  |  |
| Trichloroethene      | <0.2                  | 20.0         | 19.1        | LCSD                     | 11/12/2004   | 95.5       | 5.1               | 25          | 80 - 120        |  |  |
| Surrogate            | % Recovery            | Control Lim  | nits        |                          |  |            |                   |             |                 |  |  |
| 4-Bromofluorobenzene | 90.5                  | 75 - 125     |             |                          |  |            |                   |             |                 |  |  |
| Dibromofluoromethane | 101                   | 75 - 125     | i           |                          |  |            |                   |             |                 |  |  |
| Dibromonuoromemane   |                       |              |             |                          |  |            |                   |             |                 |  |  |

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#### Quality Control - Matrix Spike / Duplicate Results Liquid

Reviewed by: MTU - 11/15/04

QC Batch ID: WMS1041112

**Analysis Date: 11/12/2004** 

| Method EPA 8260B |                 |              |                  |                 |                 |            |                  |            |     | Conc. Units: µg/L |                    |
|------------------|-----------------|--------------|------------------|-----------------|-----------------|------------|------------------|------------|-----|-------------------|--------------------|
| Metno<br>Paramet |                 |              | Sample<br>Result | Spike<br>Amount | Spike<br>Result | QC Type    | Analysis<br>Date | % Recovery | RPD | RPD<br>Limits     | Recovery<br>Limits |
| MS               | SampleNumbe     | er: 41230-00 | 01               |                 |                 |            |                  |            |     |                   | 65 125             |
| 1.1-Dich         | loroethene      |              | ND               | 20              | 18.6            | MS         | 11/12/2004       | 93.0       |     |                   | 65 - 135           |
| Benzene          |                 |              | ND               | 20              | 20.4            | MS         | 11/12/2004       | 102        |     |                   | 65 - 135           |
| Chlorobenzene    |                 | ND           | 20               | 19.4            | MS              | 11/12/2004 | 97.0             |            |     | 65 - 135          |                    |
|                  | -butyl Ether    |              | ND               | 20              | 17.1            | MS         | 11/12/2004       | 85.5       |     |                   | 65 - 135           |
| Toluene          | 040,120.01      |              | ND               | 20              | 18.4            | MS         | 11/12/2004       | 92.0       |     |                   | 65 - 135           |
| Trichloroethene  |                 |              | ND               | 20              | 17.3            | MS         | 11/12/2004       | 86.5       |     |                   | 65 - 135           |
| ;                | Surrogate       | % Recovery   | Control Limits   |                 |                 |            |                  |            |     |                   |                    |
| 4-Broi           | nofluorobenzene | 91.9         | 75 - 125         |                 |                 |            |                  |            |     |                   |                    |
| Dibror           | nofluoromethane | 103          | 75 - 125         |                 |                 |            |                  |            |     |                   |                    |
| ,                | Toluene-d8      | 91.8         | 75 - 125         |                 |                 |            |                  |            |     |                   |                    |
| MSD              | SampleNumb      | er: 41230-0  | 01               |                 |                 |            |                  |            |     | 2.5               | 65 126             |
| 1,1-Dick         | loroethene      |              | ND               | 20              | 18.8            | MSD        | 11/12/2004       | 94.0       | 1.1 | 25                | 65 - 135           |
| Benzene          |                 |              | ND               | 20              | 20.0            | MSD        | 11/12/2004       | 100        | 2.0 | 25                | 65 - 135           |
| Chlorob          | enzene          |              | ND               | 20              | 19.1            | MSD        | 11/12/2004       | 95.5       | 1.6 | 25                | 65 - 135           |
| -                | t-butyl Ether   |              | ND               | 20              | 15.6            | MSD        | 11/12/2004       | 78.0       | 9.2 | 25                | 65 - 135           |
| Toluene          | •               |              | ND               | 20              | 18.7            | MSD        | 11/12/2004       | 93.5       | 1.6 | 25                | 65 - 13:           |
| Trichlor         |                 |              | ND               | 20              | 17.4            | MSD        | 11/12/2004       | 87.0       | 0.6 | 25                | 65 - 13:           |
|                  | Surrogate       | % Recovery   | Control Limits   | s               |                 |            |                  |            |     |                   |                    |
| 4-Bro            | mofluorobenzene | 89.3         | 75 - 125         |                 |                 |            |                  |            |     |                   |                    |
| Dibro            | mofluoromethane | 99.2         | 75 - 125         |                 |                 |            |                  |            |     |                   |                    |
|                  | Toluene-d8      | 95.8         | 75 - 125         |                 |                 |            |                  |            |     |                   |                    |

| Chain of Custody / Analysis Request | Send Invoice to (if Different) Phone | Сотрапу         | Billing Address (if Different) |                | CIIV:             | C 5808 - 2804  C 500 S 10 | 100 00 00 00 00 00 00 00 00 00 00 00 00  | C HOLD NO HOLD SEE HOLD NO HOL | *               |   |  |  |  | o o o                            | Metals: Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, V, Zn, W: RCRA-8 □ CAM-17 □ Plating □ PPM-13 □ LUFT-5 □ |
|-------------------------------------|--------------------------------------|-----------------|--------------------------------|----------------|-------------------|---|--|--|-----------------|---|--|--|--|----------------------------------|--|
| nain of Custody / A                 | r No (Reqd).:                        |                 | Billing Address                | ARINGWIS       | The MARKER        | 2 5081 03 1005 1005 1005 1005 1005 1005 1005            | C X318<br>C X318 | TO NO SEE OF THE SEE O | · ¿             |   |  |  |  | Special Instructions or Comments | Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe,(Pb) №<br>Ti, V, Zn, W: RCRA-8 ☐ CAM-17 ☐  |
| ပ်                                  | Purchase Orde                        | Project Number: | Project Name:                  | SEFERS         | Project Location: |   | yative   | PHIEION  | 7               |   |  |  |  | Special 3                        |  |
| Labs, Inc. (408) 588-0200           | Phone No.:                           | Fax No.:        | \$10 750 884<br>email:         |                | State: Zip: KSYS  | rn Aroun<br>Day<br>ard (10                              |  | XirtsM<br>XirtsM<br>Compo  | 727 W           |   |  |  |  | 10/0)                            | Dale: Time:  |
| tical                               |                                      |                 | (WC.                           |                |                   | Field Org. Code:  Same Day  2 Day  4 Day  Standard      | San  | oN do  | 234-00 11-10-04 | - |  |  |  | freewed by:                      | Received by:   |
| th Analy                            | Santa Clara. CA 95054 ttention to:   | SON 4450        | PECON FNV. SCUS                | Connecticut St |                   | Field On  |  | Eiold DT   | POINT           |   |  |  |  | Vennon                           |  |
| Entech Ar                           | Santa Clara. CA                      | ompany Name:    | VECON 5                        | 2340 C         |                   | Sampler:<br>Jollbransen<br>Global ID:                   | Order ID:  | 9.4.10   | DISCHARGE       |   |  |  |  | Ringuinged by:                   | Refinquished by:   |